#### **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	09/444,067A
Source:	•
Date Processed by STIC:	

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**IFWO** 

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/09/444,067A**DATE: 02/16/2005

TIME: 14:35:42

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Output Set: N:\CRF4\02162005\I444067A.raw

#### SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
             (i) APPLICANT: Murphy, Brian R.
                            Collins, Peter L.
      6
                            Whitehead, Stephen S.
      7
                            Bukreyev, Alexander A.
      8
      9
                             Juhasz, Katalin
     11
            (ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
     12
                                      SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES
           (iii) NUMBER OF SEQUENCES: 14
     16
            (iv) CORRESPONDENCE ADDRESS:
                   (A) ADDRESSEE: Townsend and Townsend and Crew LLP
     17
                  (B) STREET: Two Embarcadero Center, 8th Floor
     18
                   (C) CITY: San Francisco
     19
                  (D) STATE: CA
     20
                   (E) COUNTRY: USA
     21
                   (F) ZIP: 94111-3834
     22
             (v) COMPUTER READABLE FORM:
     25
                   (A) MEDIUM TYPE: Floppy disk
                   (B) COMPUTER: IBM PC compatible
     26
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     27
     28
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
            (vi) CURRENT APPLICATION DATA:
     30
C--> 31
                   (A) APPLICATION NUMBER: US/09/444,067A
                   (B) FILING DATE: 19-Nov-1999
C--> 32
                  (C) CLASSIFICATION:
     33
           (vii) PRIOR APPLICATION DATA:
     49
                  (A) APPLICATION NUMBER: US/09/444,221
W--> 36
     37
                   (B) FILING DATE: 19-NOV-1999
W--> 38
                   (A) APPLICATION NUMBER: US 08/892,403
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                  (B) FILING DATE: 15-JUL-1997
                   (A) APPLICATION NUMBER: US 60/047,634
W--> 42
                  (B) FILING DATE: 23-MAY-1997
     43
W--> 46
                  (A) APPLICATION NUMBER: US 60/046,141
                  (B) FILING DATE: 09-MAY-1997
     47
                   (A) APPLICATION NUMBER: US 60/021,773
W--> 50
                  (B) FILING DATE: 15-JUL-1996
     51
          (viii) ATTORNEY/AGENT INFORMATION:
     53
                   (A) NAME: Parmelee, Steven W.
     54
     55
                   (B) REGISTRATION NUMBER: 31,990
                  (C) REFERENCE/DOCKET NUMBER: 17634-000510
     56
            (ix) TELECOMMUNICATION INFORMATION:
     58
```

(A) TELEPHONE: 206-467-9600

59

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(B) TELEFAX: 415-576-0300
63 (2) INFORMATION FOR SEQ ID NO: 1:
65
        (i) SEQUENCE CHARACTERISTICS:
66
             (A) LENGTH: 15223 base pairs
67
             (B) TYPE: nucleic acid
             (C) STRANDEDNESS: single
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69
             (D) TOPOLOGY: linear
71
       (ii) MOLECULE TYPE: cDNA
75
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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139 GGGATTTTTG CAGGATTGTT TATGAATGCC TATGGTGCAG GGCAAGTGAT GTTACGGTGG
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151 GGTGTGATTA ACTACAGTGT ACTAGACTTG ACAGCAGAAG AACTAGAGGC TATCAAACAT
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329			CTGTAAAAAT				7620
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	ATCAATAAAC						7920
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	TATCCATCTG		•				8100
347				~~~~~~~~~	T	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8160
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349	GGATATCCAT TGACCATGCC TAATAACAAG	AAAAATAATG	ATACTACCTG	ACAAATATCC	TTGTAGTATA	ACTTCCATAC	8220 8280

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369 TACATTATTA ATTCAAACAA TTCAAGTTGT GGGACAAAAT GGATCCCATT AT 361 ATTCTGCTAA TGTTTATCTA ACCGATAGTT ATTTAAAGG TGTTATCTCT TT 363 GTAATGCTTT AGGAAGATTAC ATATTCAATG GTCCTTATCT CAAAAATGAAT A 365 TAATTAGTAG ACAAAATCCA TTAATAGAAC ACATGAATCT AAAGAAACTA AA 367 AGTCCTTAAAT ATCTAAAGTAT CATAAAGGAAC ACAGTGATCT AAAGAAACTA AA 368 AGTCATTAAT ATGACATAC AAGAGTATGA CCTCGTCAGA ACAGATTGCT AC 371 TACTTAAAAA GATAATAAGA AGAGCTATAG AAATAAAATA	355	CCTCTCAAGA	ATTGATTGAC	ACAATTCAAA	ATTTTCTACA	ACATCTAGGT	ATTATTGAGG	8400
361 ATTCTGCTAA TGTTTATCTA ACCGATAGTT ATTTAAAAGG TGTTATCTC TT 363 GTAATCGTTA AGGAAGTTAC ATATTCAATG GTCCTTATCT CAAAAAATCAT TAA 365 TAATTAGTAG ACCAAAATCCA TTAATAGACA CAATGAATCTA AAAGAAACTA AA 367 AGTCCTTAAT ATCTAAGGTAT CATAAAGGTG AAATAAAATT AGAAGACCTA AC 369 AGTCATTACT TATGACATAC AGAGGTATGA CCTCGTCAGA ACAGATTCCT AC 371 TACATTAAAAA GATAATAAAGA AGAGGTATGA CCTCGTCAGA ACAGATTCCT AC 373 TGAATAAACT AGGGCTTAAA GAAAGGACA AGAATAACTC TA 374 AATCTCATCT TATACGACC ATAATCAAGA ATGATAACT TTCAGCGCTT AA 375 ACAACTCAGT TATTACGACC ATAATCAAGA ATGATATACT TTCAGCGCTT AA 376 CACCTCTTGAA GAAATTCAACC ATAATCAACA ATCACTCTC ATCAGAACA AAAAGACACA AT 377 CACTCTTGAA GAAATTGAT AACCACATAT TAACACCAGTA TCAGATCATA AT 381 TTAACTTATA CACAAAATTA AACCACATAT TAACACCAGTA TCGATCAATA GA 383 ACCATGGGTT TACATTGATA GATAATCACA CTCTAGAGACA ATACCATGTT AA 384 AATATGGTTG TATACTTTAT CATAAGGAAC CTCTAGAGACA ATACCATCAT 385 AATATGGTTG TATACTTTAT CATAAGGAAC TTCAAAACAA TACATCATTA 386 AATATGGTTG TATACATTTAT CATAAGGAAC TTCAAAACAAT TACATCAGTA 387 AATTCTTGAC ACGACAA TTAAATAAAA GCTTAGGCTT AAGAGACTA 389 TTAGTAACCA ATAAAAAGAG GTAGAGGGAT TTATTATAAT 389 AGAAGATCA AATAAAAGAG GTAGAGGGAT TTATTAATAAA 389 AGAAGATCA AATAAAAGAG GTAGAGGGAT TTATTAATATAATA	357	ATATATATAC	AATATATATA	TTAGTGTCAT	AACACTCAAT	TCTAACACTC	ACCACATCGT	8460
363 GTAATGCTTT AGGAAGTTAC ATATTCAATG GTCCTTATCT CAAAAATGAT TA 365 TAATTAGTAG ACAAAATCCA TITAATAGAAC ACATGAATCT AAAGAAACTA AA 367 AGTCCTTAAT ATCTAAGTAT CATAAAGGTG AAATAAAATT AGAAGAACTA AA 368 AGTCATTACT TATGACATAC AGAGGTTAGA CCTCGTCAGA ACAGATTGCT AC 371 TACTTAAAAA GATAATAAGA AGAGGCTATAG AAATAAACTGA TGTCAAAGTC TA 373 TGAATAAACT AGGGCTTAAA GAAAAGGACA AGATTAAAACT CTACAAAGAGA 374 ACACCTCACT TATTACGACC ATAATCAAAG ATCATTACATC TACAACACACA 375 ACAACTCACT TATTACGACC ATAATCAAAG ATCATCATC TACAAAACA AAAAGACACA AT 376 CACCTCTTGAA GAAATTGATG TGTTCAATGC 377 CACCTCTTGAA GAAATTGATG TGTTCAATGC 378 ATCTCATCT TAAAGCAGAC AAAAATCACT CTACAAAACA AAAAGACACA AT 379 CACCTCTTGAA GAAATTGATG TGTTCAATGC 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCAGTGTTA AT 385 AATATGGTTT TACATTGATA GATAAACA CTCTTAGTGG ATTCAATTTA AT 386 AATATTCTTGAC ATGGAAAGAT ATTAGCCTTA GAGATTAAA TGTTTGTTTA AT 387 AATTCTTGAC ACAACTATTC CTTTATGAGA ATGAATTACAT AGTGTTACACA 391 TTATCTTGAC ACAACTATTC CTTTATTGAGA ATGAATTACAT AGAGTACCACA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 394 AAGAAGACA ATTCAGAAAA CCATTTTACA GAGTATACAT AAACCAATTT CAA 395 AAGAAGATCA ATTCAGAAAA CCATTTTACA GAGTATTACA ACAACCATT TC 391 TTAACCTTAC ACAACTATTC CTTTATTGAGA ATTCATATACT AAACCATTTT CAA 393 GTTCTACATA TATAATAAAT GGCAGATGGA TATATTATCTC CAACAACATC AC 394 TGTCCGATAA TATAAATAAG GGCAGATGGA TAATTCTACT AACACATTT TC 401 TAAACCTTCC AGGTGACAAT AACCTTAACA ACCCTTACAA GAGTATTCTA ACTTAATTTA AA 405 ATTTTGGACA ATTTTACTTG TTAAGCAGT TAATTCTATA ACTTAATTTA AA 406 TTAACCTTAC AGGTGACAAT AACCTTAACA ACCCTTAACA ACCCTTAACA 407 GAATTATAAAA AGGGTTTGTA AATAATTACA ACCGAGTATGA TGCTGTTAAA A 408 TATTTGAGACA ATTTTACTTG TTAAGCAGT TGAGTATCTA TCTTATTTTT TT 411 TTAACAGAAAA TCTTACTTG TTAAGCAGT TGAGTATGT TAACTCTTCT TT 411 TTAACAGAAAA TTTTACTTG TTAACCAGT TAACTCTACA ACCACTTACA ACAACCTTA AAAATTTTACA ACAACCTTAT AACAACCTTACA ACAACCTTACA AGAATTACA ACAACCTTAACA AGAATTACA ACAACCTTATA AACAACTATTA AACAACCTACA ATTTTACAACA ATTTTACAACA ACAACCTATA AACAACTATTA AACAACCTACA ATTTTACAACA ATTTTACAACA ACAACCATTA TAACAACAC TTAACCAACA TTTTAC	359	TACATTATTA	ATTCAAACAA	TTCAAGTTGT	GGGACAAAAT	GGATCCCATT	ATTAATGGAA	8520
365 TAATTAGTAG ACAAAATCCA TTAATAGAAC ACATGAATCT AAAGAAACTA AA 367 AGTCCTTAAT ATCTAAAGTAT CATAAAGGTG AAATAAAAATT AGAAGAACCT AC 368 AGTCATTACT TATGACATAC AAGAGTATGA CCTCGTCAGA ACAGATTGCT AC 371 TACTTAAAAA GATAATAAGA AGAGCTATAG AAATAAAATC TGTCAAAGCT AC 373 TGAATAAACT AGGGCTTAAA GAAAAGGACA AGATTACTA TGTCAAAGCT CA 375 ACAACTCAGT TAATACGACC ATAATCAAAG AGATAAATC CACCAATGGA CA 376 ACACTCAGT TAATACGACC ATAATCAAAG 377 AATCTCATCT TAAAAGCAGAC AAAAATCACC CTACCAAAACA AAAAGACACA AT 378 CACTCATTA ACACAGATTA AACAACATAT TAACACAGTA TCCATCAAAT GA 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCCATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 384 AATTTCTAGC TACATGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 385 AATATGGTTG TATACATTATA CATAAAGGAC TCAAAAAGAAT TACAGTGATA AT 389 TAGTAACTG CTTGAACAA TTAAAGGAC TCAAAAGAAT TACTGTGACA AC 389 TTAGTAACTG CTTGAACAA TTAAATAAAA GCTTAGGCTT AAGAGCAGA TT 389 TTAGTATACA AATAAAAGAG GTAGAGGGAT TTATTATATA TGTTTGTT	361	ATTCTGCTAA	TGTTTATCTA	ACCGATAGTT	ATTTAAAAGG	TGTTATCTCT	TTCTCAGAGT	8580
367 AGTCCTTAAT ATCTAAGTAT CATAAAGGTG AAATAAAATT AGAAGAACCT AC 369 AGTCATTACT TATGACATAC AAGAGTATGA CCTCGTCAGA ACAGATTGCT AC 371 TACTTAAAAA GATAATAACA AGAGCTATAG AAATAAGTGA TGTCAAAGTC TA 373 TGAATAAACT AGGCCTTAAA GAAAAGGACA AGATTAAAAT CACACATGGA CA 375 ACAACTCAGT TATTACGACC ATAATCAAAG AGATTAAACT TTCAGCTGTT AA 377 AATCTCATCT TATAAGCAGAC AAAAATCACT CTACAAAACA AAAAGACACA AT 379 CACTCTTGAA GAAATTGAT GTTCAATGGA CACCATGTATA GACACTCTC ATCATGGTTA AT 381 TTAACTTATA CACAAAATTA AACAACATAT TACACAGTA TCGATCAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTA AT 384 AATTCTTGAC ATGGAAAGA ATTAAGGAAC TCAAAAGAA TACTGTGACA AC 385 AATTATGGTG TATAGTTATT CATAAGGAAC TCAAAAGAAT TACTGTGACA AC 387 TATACTTGAC ACAACATATT CTATAAGGAAC TCAAAAGAAT TACTGTGACA AC 389 TTAGTAACTA AATAAAAGAG CTTATAGGAAC TCAAAAGAAT TACTGTGACA AC 391 TATACTTGAC ACAACTATTC CTTTATGGAG ATTGTATACT CAAACAAAT 392 TATACTTACA AATAAAAGAG CTTATAGGAAC TACATTTTA AA 393 GGTTCTACAT AATAAAAGAG CTTATAGGAAC TACATTTTA AA 394 CTAAATAAAAC TCAGAAAAA CTGCTATACA AACACATC AC 405 ATGAGACCAA ATTTAACTTAA TACATTATA AACACATC CAACAACATC AC 406 ATGAGACCAA ATTTAACTTT TACACAGAT TACATTATTA TA 407 TAAGCTTGC AGGTAACAAT ACCTTAACA ATCTGAATCA TACATTATTA TA 408 TATTTGGACA CCCAATGGTA AACCTTAACA ATCTGAATCA TACATTATTA TA 409 TTTTACCCTT AGAATAGT GACAGACATT CTAATTTATA AACTTAAACAC TTTAACTTT TACACAGACCA TACATTTTC TACAGAAAA CTGTTATACA ACCATGGA TACTTTATAA 409 TTTTACCCTT AAGAAGTGTA ATTAATTCT TTACACAGTC TACATTATTA AACTTAAACAC TTATCTTTTT TACAGAACA ATTTTACTT TACACAGTC TACATTATAA ACCTTAACA ATCTGATATAA ACCTATATAA ACCTATAACAC TATATCCCT C 407 TAAAAAAATT AAAATTTCC AGAAAATT AACTTAATAA ACCTATAACAC TATATCACCT C 415 TAGAAAAAT AAAATTTCC AGAAATATC ACAAAATAAACA TATACACTC C 416 TAGAAAAATT AAAATTTACC AGAAATATAAAACA TATACAATAAAAAAAAAA	`363	GTAATGCTTT	AGGAAGTTAC	ATATTCAATG	GTCCTTATCT	CAAAAATGAT	TATACCAACT	8640
369 AGTCATTACT TATGACATAC AAGAGTATGA CCTCGTCAGA ACAGATTGCT AC 371 TACTTAAAAAA GATAATAAGA AGAGCTATAG AAATAAAGTC TA 373 TGAATAAACT AGGGCTTAAAA GAAAAGGACA AGATTAAATC CAACAATGGA CA 375 ACAACTCAGT TATTACGACC ATAATCAAAG ATGATATACT TTCAGCTGTT AA 377 AATCTCATCT TAAAGCAGAC AAAAATCACT CTACAAAACA AAAAGCACA AT 379 CACTCTTGAA GAAATTGAATG TGTTCAATGC ACACATCTC ATCAGTGTTA AT 381 TATAACTTAATA CACAAAATTA AACACACATAT TAACACAGTA TGGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 385 AATATGGTTG TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 386 TATACTTCAC ATGGAAAGAT ATTAACACATAT TAACACAGTAT TGGATCAAAT GA 387 TAGTATAACA CTCTTAGTGG ATTTCAATTT AT 388 TATATGGTTG CTTGAACACA TTAAATAAAA GCTTTAGTGG ATTTCAATTT AT 389 TAGGAACACA ATTAAGCACA TTAAATAAAA GCTTTAGTCT AAGACTACTT CA 391 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC CTCAATTTTA A 395 AAAAAAAACA CACACTATTC CTTTATGGAG ATTGTATACT AAGACACAT AC 397 CTAATAAAAG TCAGAAAAAA CGATTTTATA ATAGGTATGCT CAACACACACAC 397 CTAATAAAAG TCAGAAAAAA CGATTTTATA ATAGGTATGCT CAACACACACAC 398 TOTCCCGATAA TATAAAAAAAA GGCAATACAA ACCTTACAA GAGTATGTCA TACATTATTA GA 399 TOTCCCGATAA TATAAAAAAA GGCAATGGA TAATTCTAATT AAGACACATT TTA 401 TAAGCTTGC ACCAAACATATC 403 TATTTGGACA CCCCAATGGTA GACGAACACAC AACCTTAACA 405 ATGAGACCAA ATTTTACTTG TAAGCAGATC TACACATCC CAACACATC CA 407 GAATTATAAA AGGGTTTCTA AACCTTAACA ACCGATAGGA TACTTATATAA 408 TTTACCCCTT AAGATGGTTA AATAAATACA ACCGATAGCA TCATATTTT TA 409 TTTACCCCTT AAGATGGTA AACCTTAACA ACCGATAGGA CAACCTTCTCT TT 411 TTAACAGAAAA GGGTTTCTA AATAATACA ACCGATAGCA TCATCATACA 412 TAAAAAAAAT AAAATTTTCC 413 GAAAAAAAT AAAATTTTCC 414 ACAACCCTAA ATCAATACA 415 ATGAAAAAAT AAAATTTTCC 416 GAGATAAAAAA TAAAATTTCAAAACA 417 ATGAAAAAAAT AAAATTTTCC 418 GAGAGTACAAAT AAAATTACAAACAA 419 ACAACAATTA AAAATTTTCC 419 GAGATAAAAAA TAAAATTTCAAAAAAAAAAAAAAAAAA	365	TAATTAGTAG	ACAAAATCCA	TTAATAGAAC	ACATGAATCT	AAAGAAACTA	AATATAACAC	8700
371 TACTTAAAAA GATAATAAGA AGAGCTATAG AAATAAGTG TGTCAAAGTC TA 373 TGAATAAACT AGGGCTTAAA GAAAAAGGACA AGATTAAATC CAACAATAGGA 374 ACACTCAGT TATTACGACC ATAATCAAAG ATGATATACT TTCAGCTGTT AA 375 ACAACTCAGT TATAAGACC AAAAATCACT CTACAAAACA AAAAGCACA AT 379 CACTCTTGAA GAAATTGATG TGTTCAATGC CACACAACAA AAAAGCACA AT 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATT AT 385 AATATCGTTG TATAGTTTAT CATAAAGGACA CTCAAAAGAAA TTCAGTGTA AT 387 AATTCTTGAC ATGGAAAGAT ATTAGCCTTA GTAGAAAAA TACTGTGACA AC 388 TATATCGTGA CACACATTTC CTTATAGAGA ATTAGTTAA TGTTTGTTA AT 389 TTAGTAACTG CTTGAACACA TTAAATAAAA GCTTAGGCTT AAGATACGAG 391 TATACTTGAC ACAACTATTC CTTATAGGAG ATTGTATACT AAAGACATAT A 392 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 394 CAACAATAA ATTCAGAAAAA CGATTTTATA ATAGTATGCC CAACAACATC AC 397 CTAATAAAAC CTCAAAAAAA CGATTTTATA ATAGTATGCC CAACAACATC AC 401 TTAAGCTTGC AGGAAAAAT CTGCTATACAA GAGTATGTCA TACATTATTA TA 403 TATTTGGACA CCCAATGGTA GATGAAGAGC AAGCCATGGA TACATTATTT TT 403 TATTTGACCAA ATTTACTTG TAAGAGGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TAAGACAGT CAACAACATC CC 410 GAATTATAAA AGGGTTTGTA AATAATACAA AACCATTACT CTAACACATC TC 411 TTAACAGAAAA GAGTTTGTA AATAATTACA ACAGATGGC TACTTTAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAAA 400 TGAATAAAAAC GGATTTGCT AAGAATTACA TGCCATCACA CATACAAACA TA 411 TTAACAGAAAA TACATTACT TTACTGG GACAAAAAAC TA 412 ACAACATTA AATATTACA ATGATTATAA ATGAAAAAC TA 413 CTAAAAAAAT AAAATTTCC GAGAATTACA TACATTATA ATGAAAAACA TATATACAAAACA TACATTATAA ATGAAAAAACA TACATTAAAAAAAAAA	367	AGTCCTTAAT	ATCTAAGTAT	CATAAAGGTG	AAATAAAATT	AGAAGAACCT	ACTTATTTTC	8760
371 TACTTAAAAA GATAATAAGA AGAGCTATAG AAATAAGTG TGTCAAAGTC TA 373 TGAATAAACT AGGGCTTAAA GAAAAAGGACA AGATTAAATC CAACAATAGGA 374 ACACTCAGT TATTACGACC ATAATCAAAG ATGATATACT TTCAGCTGTT AA 375 ACAACTCAGT TATAAGACC AAAAATCACT CTACAAAACA AAAAGCACA AT 379 CACTCTTGAA GAAATTGATG TGTTCAATGC CACACAACAA AAAAGCACA AT 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATT AT 385 AATATCGTTG TATAGTTTAT CATAAAGGACA CTCAAAAGAAA TTCAGTGTA AT 387 AATTCTTGAC ATGGAAAGAT ATTAGCCTTA GTAGAAAAA TACTGTGACA AC 388 TATATCGTGA CACACATTTC CTTATAGAGA ATTAGTTAA TGTTTGTTA AT 389 TTAGTAACTG CTTGAACACA TTAAATAAAA GCTTAGGCTT AAGATACGAG 391 TATACTTGAC ACAACTATTC CTTATAGGAG ATTGTATACT AAAGACATAT A 392 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 394 CAACAATAA ATTCAGAAAAA CGATTTTATA ATAGTATGCC CAACAACATC AC 397 CTAATAAAAC CTCAAAAAAA CGATTTTATA ATAGTATGCC CAACAACATC AC 401 TTAAGCTTGC AGGAAAAAT CTGCTATACAA GAGTATGTCA TACATTATTA TA 403 TATTTGGACA CCCAATGGTA GATGAAGAGC AAGCCATGGA TACATTATTT TT 403 TATTTGACCAA ATTTACTTG TAAGAGGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TAAGACAGT CAACAACATC CC 410 GAATTATAAA AGGGTTTGTA AATAATACAA AACCATTACT CTAACACATC TC 411 TTAACAGAAAA GAGTTTGTA AATAATTACA ACAGATGGC TACTTTAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAAA 409 TTTTACCCTT AAGATGGTT AATAATTACA ACAGATGGC TACTTTAAAAA 400 TGAATAAAAAC GGATTTGCT AAGAATTACA TGCCATCACA CATACAAACA TA 411 TTAACAGAAAA TACATTACT TTACTGG GACAAAAAAC TA 412 ACAACATTA AATATTACA ATGATTATAA ATGAAAAAC TA 413 CTAAAAAAAT AAAATTTCC GAGAATTACA TACATTATA ATGAAAAACA TATATACAAAACA TACATTATAA ATGAAAAAACA TACATTAAAAAAAAAA	369	AGTCATTACT	TATGACATAC	AAGAGTATGA	CCTCGTCAGA	ACAGATTGCT	ACCACTAATT	8820
375 ACAACTCAGT TATTACGACC ATAATCAAAG ATGATATACT TTCAGCTGTT AA 377 AATCTCATCT TAAAGCAGAC AAAAATCACT CTACAAAACA AAAAGACACA AT 379 CACTCTTGAA GAAATTGATG TGTTCAATGC AACATCCTC ATCATGGTTA AT 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 385 AATATCGTTG TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 386 AATTCTTGAC ATGGAAGAAT ATTAGCCTTA GTAGATAAAA TGTTTGTATA AT 387 TAGTTAACT CTTGAACACA TTAAAATAAAA GCTTATGGCTT AAGATGCGGA TT 391 TTATCTTGAC ACACTATTC CTTTAATGAAA GCTTAGGCTT AAGATGCGGA TT 392 CTAATAAAAC AATTCAAAAA CGATTTTATA ATAGTATGCT CAAAAGAAT TACTTATTTA AA 393 AAGAAGATCA ATTCAGAAAAA CGATTTTATA ATAGTATGCT CAAAAACAATTT CAAAAACAAA ATAGAAAAA CGATTTATAA ATAGTATGCT CAAAAACAATTATA AA 394 TATCAGAAAAA CGATTTATAA ATAGTATGCT CAAAAAAAACAA CAAACAACATC AC 395 TGTCCGATAA TATAAAAAAA GGGATAGAA ATCTCAAAAAA CAAATTATATA AA 395 AAGAAGACCA ATTTAAATAAAA GGCAATGAA AACCCTTAAA AAGCCATGA ACAATTATTA AA 395 TGTCCGATAA ATTTAATAAAA GGCAATGAA AACCCTTAAACA ATCTGAGAGAA ACAAACATC AC 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATTATTT TA 403 TATTTGGACA CCCAATGGTA GATAAAAGAC AAGCCATGGA TGCTGTTAAA AT 404 TTTTACCCCT AAGATGTATA AATAATACA ACCATGATT TAAAAAAAAAA	371	TACTTAAAAA	GATAATAAGA	AGAGCTATAG	AAATAAGTGA	TGTCAAAGTC	TATGCTATAT	8880
377 AATCTCATCT TAAAGCAGAC AAAAATCACT CTACAAAACA AAAAGCACA AT 379 CACTCTTGAA GAAATTGATG TGTTCAATGC 378 ATTACTTATA CACAAAATTA AACAACATAT TAAACCAGTA TCGATCGATT AT 381 ATTACTTATA CACAAAATTA AACAACATAT TAAACCAGTA TCGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCACAA CTCTTAGTGG ATTCAAATT AT 384 AATATGGTTG TATAGTTTAT CATAAGGAAC TCAAAAGAAT TACTGTGACA AC 387 AATTCTTGAC ATGGAAAGAT TATAGCCTTA GTAGATCACA TTAAATTAAA	373	TGAATAAACT	AGGGCTTAAA	GAAAAGGACA	AGATTAAATC	CAACAATGGA	CAAGATGAAG	8940
379 CACTCTTGAA GAAATTGATG TGTTCAATGC AACATCCTCC ATCATGGTTA AT. 381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCGATCAAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 385 AATATGGTTG TATAGGTTAT CATAAGGAAC CTCTAAAGGAAT TACTGTGACA AC 387 AATTCTTGAC ATGGAAAGAT ATTAGCCTTA GTAGATTAAA TGTTTGTTTA AT 389 TTAGTAACTG CTTGAACACA TTAAATAAAA GCTTAGGCTT AAGATGCGGA TT 391 TTATCTTGAC ACAACTATTC CTTTATGGAG ATTGTATACT AAGACTGATT CA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TATATATGTC TCAAATTTTA AT 394 CTAAATAAAC CTCAGAAAA CGATTTTATA ATAGTATGCT CAACAACATC AC 395 TGTCCGAATA TATAATAAAT GGCAGATGAT TAATCTTATA AAGCAACATC AC 397 CTAATAAAGC TCAGAAAAA CGATTTTATA ATAGTATGCT CAACAACATC AC 398 TGTCCGAATA TATAAATAAAT GGCAGATGAA TATCTATTA AAGCTAGATT AACTAAGACAT AC 401 TTAAGCTTGC AGGTGACAAT AACCATTAACA ATCTGAGTGA ACTATATTTT TA 403 TATTTGGACA CCCAATGGTA GATGAAGAAC ATCTGAGTGA ACTATATTTT TA 404 TATAATAAAA AGGGTTTGTA AATAAATTACA ACCAGATGGA TGCTGTTAAAA AT 405 ATGAGACCAA ATTTTACTTG TAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAAA AGGGTTTGTA AATAATTACA ACAGATGGC TGCTGTTAAAA AT 409 TTTTACCCTT AAGATGGTTA AATAATTACA ACAGATGGC TGCTGTTAAAA AT 411 TTACCAGAAAA GAATTTGAT GTGTTATCAG GACTACGTTT CATTCCTTC TT 412 TGATATGGAC TAGTTTCCT AGAAATTACA TGCCATCACC CATACAAAAC TA 413 CTAAAAAAGT GGATCTTCAA ATGATTATAA AACTAAACAC TTATCCTTCT T 414 TAGAAAAAT AAAATTTCC GAGAGTGATA AACAACACAC CATACAAAAC TA 415 AGAACACAT TCATGTGGTA TCATTGAAAA ATCAAAGAA AATCAAAAAA AATCAAAAAA AATCAAAAAA TAAAATTTACA CAGAATGAAA AGAATTAAAAA 421 ACAACCCTAA TCATGTGGTA TCATTGAAAA AGTATTAAAAAAAA AATATTACA CAGAGTGATA AACAACTGTA AACAACTGAT AACAACTGAT AACAACTGAAAA AATATTAAAAAAAAAA	375	ACAACTCAGT	TATTACGACC	ATAATCAAAG	ATGATATACT	TTCAGCTGTT	AAAGATAATC	9000
381 TTAACTTATA CACAAAATTA AACAACATAT TAACACAGTA TCGATCAAT GA 383 ACCATGGGTT TACATTGATA GATAATCAAA CTCTATAGTGG ATTTCAATTT AT 385 AATATGGTTG TATAGTTTAT CATAAGGAAC TCCAAAAGAAT TACTGTGACA AC 387 AATTCTTGAC ATGGAAAGAT ATTAGCCTTA GTAGATTAAA TACTGTGACA AC 388 TTAGTAACTG CTTGAACACA TTAAAATAAAA GCTTAAGGCTT AAGATGCGGA TT 391 TTATCTTGAC ACAACTATTC CTTATGGAG ATTGATATACT AAAGATGCGGA TT 392 GGTTCTACAT AATAAAAAGAG GTAGAGGGAT TTATTATATCT CAACAACACT AC 393 GGTTCTACAT AATAAAAAAA CGATTTATAA TAGATTACCT CAACAACACT AC 394 TGTCCGATAA TATAAATAAAA GGATTTATAA TAGATTATGCT CAACAACACT AC 395 TGTCCGATAA TATAAATAAAA GGACTATTAAA ATACTTATATA GA 396 TGTCCGATAA TATAAATAAAA GGACTATAAA 397 TGTCCGATAA TATAAATAAAA GGACTATAAA 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTTT TT 403 TATTTTGGACA CCCAATGGTA GATGAAAAAC TACATTAATAAA 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGTAAGTTC CT 406 TATAACAAAA AGGGTTTGAA AATAAATTACA ACAGATGGCC TACATTATTT TT 411 TTACAGAAAA GGATTTGAT AATAAATTACA ACAGATGGCC TACATTAACA AA 409 TTTTACCCTT AAGATGGTA ATGATTACAA ACCAACGTTT CACATTAAAA 409 TTACAGAAAAA GGATTTGATA ATGATTACAA ACCAACGTTT CACATTAAAA 411 TTACAGAAAA GAGTTTGAA ATGATTATAA AGGAGGCC TACATTAACAA 412 TGATAGGAC TAGATTTACAT AACATTAAAA AGGATTAAAA ATGATAACAC TACATTAAAAA 413 CTAAAAAAATT AAAATTTTCC GAGAATTACA TGCCATCACA CATACAAAAC TA 414 ACAACCCTAA TCAATGGAA AGGATTATAAA ATGAATAAAA AGGATTACAA ACCAACGATG AACCAGAA TACAAAACA TACAACAAAAAC TACAACAAAAAAC TACAAAAAACT AAAAATTTAAAA ATGAAAAAAAC TACAACAAAAAAAACT AAAAATTTAAAA ATGAAAAAAACT AAAAATTAAA ATGAAAAAAACT AAAAATTAAAAAAATT AAAAATTTACAA AGGAAGAAAAAAAAAA	377	AATCTCATCT	TAAAGCAGAC	AAAAATCACT	CTACAAAACA	AAAAGACACA	ATCAAAACAA	9060
ACCATGGGTT TACATTGATA GATAATCAAA CTCTTAGTGG ATTTCAATTT AT 385 AATATGGTTG TATAGTTTAT CATAAGGAAC TCAAAAGAAT TACTGTGACA AC 387 AATTCTTGAC ATGGAAAGAT ATTAGCCTTA GTAGATTAAA TGTTTGTTTA AT 389 TTAGTAACTG CTTGAACACA TTAAATAAAA GCTTAGGCTT AAGATGAGA T 391 TTATCTTGAC ACACTATTC CTTTATGGAG ATTGTATACT AAAGCTATTT CA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGGA TTAATTATCT AAAAAGAAACACATC AC 394 CTAATAAAGC ATTCACAAAAA CGATTTTAAA TAAGTCAGTC CAACAACATC AC 395 CTAATAAAGC TCAGAAAAAT CTGCTATCAA GAGTATGTC AACACAACATC AC 396 CTACGGATAA TATAAATAAAA GGAGTATGAA AACCTTACAA AACCTATATT GA 397 CTAATAAAGC TCAGAAAAAAT CTGCTATCAA GAGTATGTCA TACATTATTA AA 398 TGTCCGATAAA TATAAATAAAA GGAGAGGGA TAAATTCTATT AAGTAAGTTC CT 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTT TT 403 TATTTGGACA CCCAATGGTA GATGAAAGAC AACCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGGAGGTCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTA ACTTACTATA AACTAAACAC TATATCCTTCT TT 411 TTACAGAAAG AGATTTGAT ACTTACTATA AACTAAACAC TATATCCTTCT TT 412 TTACAGAAAG AGATTTGAT ACTTACTATA AACTAAACAC TATATCCCTT CT 413 CTAAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAACAC TATATCACCT CC 415 TGATATGGAC TAGATTTCCCT AGAAATTACA TGCCATCACA CATACAAAC TA 417 ATGAAAAATT AAAATTTCC GAGAGTGATA AATCAAGAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGA AGACTGATA AATCAAGAAG AGAACTCAGT GT 424 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 425 CTGAAAACAA TTTACAATGA TTTCCTTACAA AGACTCAACA TATACAACAC TATACACAC CATACAAAC TA 425 CTGAAAACAAT TCATGTGGTA TCATTGACA GCCAACCAAA TTTACAATTC TTCCCTTGAAA GCCATCACA AATCAAACAAC TA 426 ACAACCATAA CAACTGTGA TATACAACAC TATACACAC TATA	379	CACTCTTGAA	GAAATTGATG	TGTTCAATGC	AACATCCTCC	ATCATGGTTA	ATACATTGGT	9120
385AATATGGTTGTATAGTTTATCATAAGGAACTCAAAAGAATTACTGTGACAAC387AATTCTTGACATGGAAAGATATTAGCCTTAGTAGATTAAATGTTTGTTTAAT389TTAGTAACTGCTTGAACACATTAAATAAAAGCTTAGGCTTAAGATGCGGATT391TTATCTTGACACAACTATTCCTTTATGAGAATTGTATACTAAAAGCTATTTCA393GGTTCTACATAATAAAAGAGGTAGAGGGATTTATTATGTCCTAAATATTAAA395AAGAGATCAATTCAGAAAACGATTTATAATAGTATGCTCACACACATCAC397CTAATAAAGCTCAGAAAAATCTGCTATCAAGAGTATGTCATACATTATTAGA401TTAAGCCTGCAGGTGACAATAACCTTAACAATCTGAGTAACTATATTTTCT403TATTTTGGACACCCAATGGTAGACTATACAAAACGCCATGGATCCTGTTAAAAT404TATTACCCTTAGGGTTTGTAAATAATTACAACGATGGCCTACTTTAAGAAA405ATGAGACCAAATTTTACTTGTTAACAGAAGCTAGATTATAAAACTAAACACTACTTTAAGAAA411TTACAGAAAAAGATTGATTGTGTTATCAGGACTACGTTTCTATCGTGAGTT412TTACAGAAAAAGATTTGATTATGGATTAAAAATATATTACACCTCCCATACAAAAAACTTA413CTAAAAAAATTAAAATTTCCAGAAGTTTAAAATCAAGAGAAGTATTAGAGTA414ACAACCCTAATCATTGGTAATGTTACAGAAGTATTAGAAAGAACTCAGAATTAGATACAATA415ACAACCCTAATCATTGGAAATGTTCAAAAAAAAAAAAAAA	381	TTAACTTATA	CACAAAATTA	AACAACATAT	TAACACAGTA	TCGATCAAAT	GAGGTAAAAA	9180
387AATTCTTGACATGGAAAGATATTAGCCTTAGTAGATTAAATGTTTGTTTAAT389TTAGTAACTGCTTGAACACATTAAATAAAAGCTTAGGCTTAAGATGCGGATT391TTATCTTGACACAACTATTCCTTTATGGGAATTGTATACTAAGACACATTCA393GGTTCTACATAATAAAAGAGGTAGAGGGATTTATTATGCTCTAATTTTAAA395AAGAAGATCAATTCAGAAAAACGGTTTCTACAAGAGTATGTCATACATTATTAGA399TGTCCGATAATATAATAAATGGCAGATGGATAATTCTATTAAGTAAGTTCCT401TTAAGCTTGCAGGTGACAATAACCTTAACAATCTGAGTGAACTATATTTTTT403TATTTGGACACCCAATGGTAGATGAACACAAACCCTTGGAACCTATATTTTT404TATTTACCCTTATTAAGCAGTCTGAGTATGTAAACGATGGCCTACTTTAAGAAC405ATGATATAAAAGGGTTTGTAAATAATTACAACAGATGGCCTACTTTAAGAAA407GAATTATAAAAGGGTTTGAAATTAATCACAACCAGATGGCTACTTTAAGAAT411TTACAGAAAGAGATTTGATTACTTAACTATAAACTAAAACCTTATCCCTTCTT412TGATATGGACTAGTTTCCCTAGAAGTTATAAATGCATCACACTATACCACACTATACAAGACTA413CTAAAAAAATTAAAATTTTCCAGAAGTGAATAATCAACAATAAATCAACAATAAACAACCAATAAACAACCAATAAACAACCAATAAACAACCAGAATAAACAACCAATAAACAACCAATAAACAACCAATAAACAACCAATAACAACCAATAAACAACCAATAAAACAACTAATACAACAACAATAA	383	ACCATGGGTT	TACATTGATA	GATAATCAAA	CTCTTAGTGG	ATTTCAATTT	ATTTTGAACC	9240
389TTAGTAACTGCTTGAACACATTAAATAAAAGCTTAGGCTTAGATGCGGATT391TTATCTTGACACAACTATTCCTTTATGGAGATTGTATACTAAAGCTATTTCAAGCTATTT393GGTTCTACATAATAAAAAGAGGTAGAGGGATTTATTATGTCCTAAATATTAAA395AAGAAGATCAATTCAGAAAACGATTTTATAATAGTATGCTCAACAACATCAC399TGTCCGATAATATAATAAAAGGCAGATGGATAATTCTATTAGTAGTAGTTTACATTATTATA401TTAAGCTTGCAGGTGACAATAACCTTAACAATCTGAGTGAACTATATTTTT403TATTTGGACACCCAATGGTAGATGAAAGACAAGCCATGGATGCTGTTAAAAT405ATGAGACCAAATTTTACTTGTTAAGCAGTCTGAGTATGTTAAGAGTGGCTACTTTAAGAAC407GAATTATAAAAGGGTTTGTAAATAATACAACAGATGGCTACTTTAAGAAT409TTTTACCCTTAAGAGTGGTAACTTACTATAACCTATAACACTTATCCCTTCTTTT411TTACAGAAAGGGATCTTGAAATGATTATAAATGATAAAACTTATCCCTTCTTTT412TAGAAAAAATTAGTTTCCCTAGAAGTGATAATCAAGAACTAATTACACCTCC415TGATATGGACTAGTTTCCCTAGAAGTATAAATCAAGAACAATAATCAAGAACAATAACAACCACTAAATTACAAGAAATTACAAGAAAACACCACAAAATTACAAGAAAACACCACAAAATTACAAGAAAACACCACAAAATTACAATCAAACACCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	385	AATATGGTTG	TATAGTTTAT	CATAAGGAAC	TCAAAAGAAT	TACTGTGACA	ACCTATAATC	9300
391 TTATCTTGAC ACAACTATTC CTTTATGGAG ATTGTATACT AAAGCTATTT CA 393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 395 AAGAAGATCA ATTCAGAAAA CGATTTATA ATAGTATGCT CAACAACATC AC 397 CTAATAAAGC TCAGAAAAAT CTGCTATCAA GAGTATGTCA TACAATAATAA 399 TGTCCGATAA TATAATAAAAT GGCAGATGGA TAATCTATT AAGTAAGTTC CT 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTTT TT 403 TATTTGGACA CCCAATGGTA GATGAAAGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGAAT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATCCCTC CT 415 TGATATGGAC TAGTTTCCCT AGAATTACA ATGATAAAGC TATCACCT CC 416 TGAAAAAAAT AAAATTTCC GAGAGTGAT AACCAAAACAC TATACACCT CC 417 ATGAAAAAAT AAAATTTCC GAGAGTGATA AATCAACAAA AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAACACA 421 ACAACCCTAA TCAATGAA TGTGATTTAT ACAACTGTGT AGTTAACACA 422 ACAACAATTA CAATGGGAA ATGTTACAA AGGTTCAAAA AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGA GCAAAAGAAA AATCGCTAA A 425 ACAACAATTA AGAACTGAAA GCAGAATAA GTAACAAAT AATGGGAGA AA 425 CTGAAAACAT TTTACAATTC TTCCTGAAA GTCTTACAAA ATAGGTGAT CA 427 AAAAAATAT AGAACTGAAA GCAGGAATAA GTAACAAATC AA 428 ACAACAATTA CAATGGAAA GCAGGAATAA GTAACAAATC AA 429 ACAACAATTA CAATGGTAA TATTCCTGAAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CAATGGTAA TATTGTATC CTCATGTCAC AATACGAATC AA 429 ACAACAATTA CATTAGGAA GCAGGAATAA GTAACAAATC CAACAAATC AA 429 ACAACAATTA CATTAGGAA GCAGGAATAA GTAACAAATC CAACAATC AA 431 TTCGATATGA AACCTGAT TTTACATTC TCAAGAGTCT CAGCAAATTC AA 432 ATGCACCCC CTATATAGGA GATCAATCA ATGGTGAT TAAACTATA CAATGGTAA GAACCAAT CAACAATCA AATCACATG GAACCAAT CAACAATCA AATCACAATC AATTCACAGAATC CAAAAAAAAAA	387	AATTCTTGAC	ATGGAAAGAT	ATTAGCCTTA	GTAGATTAAA	TGTTTGTTTA	ATTACATGGA	9360
393 GGTTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AA 395 AAGAAGATCA ATTCAGAAAA CGATTTTATA ATAGTATGCT CAACAACATC AC 397 CTAATAAAGC TCAGAAAAAT CTGCTATCAA GAGTATGTCA TACAATAATAA GA 399 TGTCCGATAA TATAATAAAAT GGCAGATGGA TAATTCTATT AAGTAAGTTC CT 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTT TT 403 TATTTGGACA CCCAATGGTA GATGAAAGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG GGATCTTGAA ATGATTATAA ATGATAAACAC TATCCTTCT TT 412 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC CATACCAAAC TA 413 CTAAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC CATACCAAAC TA 414 ATGAAAAAATT AAAATTTTCC GAGAGTGATA AACCAACAAA AGCATTACAC CA 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACCAAAAC TA 417 ATGAAAAAATT AAAATTTTCC GAGAGTGATA AATCAACAAA AGTATTAAAA 418 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAACACA 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 422 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAA AATCGCTAA AC 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGA GTCTTACAAA ATATGGTGAT CA 424 AAAAAATATT AGAACTGAAA GCAGAATAA GTAACAAATC AA 425 ACAACAATTA CAATGAAAA TCATTGATAA TCACAGAATC CAACAAAATA AAAAAAATAT AGAACTGAAA GCAGAATAA GTAACAAATC AA 427 AAAAAAATAT AGAACTGAAA GCAGAATAA GTAACAAATC AA 428 ACAACAATTA CATTAGTAAA TGCCTATCA TCACAGAATC CAGCAAATC AA 429 ACAACAATTA CATTAGGAA GCAGGAATAA GTAACAAATC AA 431 TTCGATATGA AACGTCAAT TTTCCTGAAA GTAACAAATC CAGCAAATT AAAAAAAAAA	389	TTAGTAACTG	CTTGAACACA	TTAAATAAAA	GCTTAGGCTT	AAGATGCGGA	TTCAATAATG	9420
395 AAGAAGATCA ATTCAGAAAA CGATTTATA ATAGTATGCT CAACAACATC AC 397 CTAATAAAGC TCAGAAAAAT CTGCTATCAA GAGTATGTCA TACATTATTA GA 399 TGTCCGATAA TATAATAAAT GGCAGATGGA TAATTCTATT AAGTAAGTTC CT 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTTT TT 403 TATTTGGACA CCCAATGGTA GATGAACAAC AAGCCATGGA TGCTGTTAAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACCAGATGGC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA AATAATTACA ACCAGATGGC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTATACTATA AACTAAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAAAT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGATTTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACCACTGTG AGTATTAAGAG TA 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGACTCAGA GG 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAA ATTGGCAGAG AA 425 CTGAAAACAT TTACAATGA TGTGATTTAT ACAACTGTT AGTAATCACA GG 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTCTCACAA ATTTGGCAGAG AA 428 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGCAGAG AA 429 ACAACATTA CATTAGTAAG TGCTCTATCA TCACAGATC CAGCAAATTC AA 421 TTCGATATGA ACCTCAGAT ATTTGTAGAG GCAAGAAAC GTAACAATC AA 422 ACAACCATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 423 ATGCCACCCC CTATATAGGA GACCAGGAATAA GTAACAAATC AAATCGCTAC AA 431 TTCGATATGA AACGTCAGT TTTACATTTC TCACAGATCT CAGCAAATTC AA 433 CTCTATTTC CTGGTTACAT TTAACTATTC TCACAGGTGT TCAAAAATC AAATCGCTAC AA 434 ATGCACCCC CTATATAGGA GACCAATATT TAACTATTC TCACAGGAAA ATTCTACAAT GAA 435 ATGCACCCC CTATATAGGA GACCAATATT TTAACTATTC TCAAAGGGAA ATTCTCAAATC AA 436 ATGCACCCC CTATATAGGA GACCAATATT TTAACATATTC TCAAAGGGAA ATTCTCAAATAT GAACAATTC AAATATATAG AATCACAATG GGTGGCATCG AAGGGAATAA TATCAACAATC AATCAAATC AAATCAATTC TCAAAAGGAA ATTCTAAATATAG GAACCAAAT AATTCACAATC ATAATATCT TAACAAATC TAAAATAAACAT TG 434 AAGCTATATC ACAATCAA ATAAATATCC TCAAAAAAAAAA	391	TTATCTTGAC	ACAACTATTC	CTTTATGGAG	ATTGTATACT	AAAGCTATTT	CACAATGAGG	9480
397 CTAATAAAGC TCAGAAAAAT CTGCTATCAA GAGTATGTCA TACATTATTA GA 399 TGTCCGATAA TATAATAAAT GGCAGATGGA TAATTCTATT AAGTAAGTTC CT 401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTT TT 403 TATTTGGACA CCCAATGGTA GATGAAAGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTAGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TATATCCTTCT TT 411 TTACAGAAAG AGATTTGTA ATGATTACAG GACTACGTTT CTATCGTGGA TT 412 TGAAAAAAGT GGATCTGAA ATGATTACAG GACTACGTTT CTATCGTGGA TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCC AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAAAT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTATAGAG TA 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 422 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTACAAAAC TA 427 AAAAAATAT AGAACTGAAA GCAGGAATAA GTCATCACAG ATATGGTGAT CT 427 AAAAAATAT AGAACTGAAA GCAGGAATAA GTCATCACAG ATATGGTGAT CT 427 AAAAAATAT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCCTCATCA TCACAGATC CAGCAAATTC AA 431 TTCGATATGA AACGTCAATG TTACCTATCT TCACAGGACT CAGCAAATTC AA 432 ATGCACCCC CTATATAGGA GATCATATTC TCACAGGACT CAGCAAATTC AA 433 CTCTATTTC CTGGTTACAT TTAACTATTC TCACAGGAC TGAACAAACC TG 434 AAGCTCATAT CACAGTG GATCATATTC TAGAGTGAA AATAATATAG AA 435 ATGCACCCC CTATATAGGA GATCATATTC TCAAAGGAA ATTCTCAATT AC 436 AAGCTATATA AACACTCAATCA ATAATATCT TCAAAGGAA ATTCTCAATT AC 437 AAGCACCCC CTATATAGGA CATCATATTC TCAAAGGAAA ATTCTCAATT AC 438 AAGCTATATA AACACTATTGAA TTTGACATT TAACTATTA CAAACCAAT TAAAAAACTA TG 439 AAGCTATATC ACAATCAA ATAATATCT TCAAAGAGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAAAAACCAAT TAAATATCC AA 442 CTCATGCTCA AGCCACAAA TTAAAAAGGAA CTGAAACCAAT TAAATTACCG GA 443 CTCATGCTCA AGCCACAAA TTAAAAAGGAA CTGAAACCAAT TAAATTACCG GAAACCAAT TAAATTACCG AA 445 TTATGGAGAA AACAATTCAA CAATACAACGGTG TAAAATAACCC	393	GGTTCTACAT	AATAAAAGAG	GTAGAGGGAT	TTATTATGTC	TCTAATTTTA	AATATAACAG	9540
399TGTCCGATAATATAATAAATGGCAGATGGATAATTCTATTAAGTAAGTTCCT401TTAAGCTTGCAGGTGACAATAACCTTAACAATCTGAGTGAACTATATTTTTT403TATTTGGACACCCAATGGTAGATGAAAGACAAGCCATGGATGCTGTTAAAAT405ATGAGACCAAATTTTACTTGTTAAGCAGTCTGAGTATGTTAAGAGGTGCCTT407GAATTATAAAAGGGTTGTAAATAATTACAACCAGATGGCCTACTTTAAGAAA409TTTTACCCTTAAGATGGTTAACTTACTATAAACTAAACACTTATCCTTCTTT411TTACAGAAAGAGATTTGATAATGATTATAAACTACGGTTCTATCGTGAGTT413CTAAAAAAGTGGATCTTGAAATGATTATAAATGATAAAGCTATATCACCTCC415TGATATGGACTAGTTTCCCTAGAAATTACAATGCCATCACACATACAAAACTA417ATGAAAAAATTAAAATTTCCCTAGAAATTACAAGTCAACAAAACTA419GAGATAACAAATTCAATGAATGTGATTTATACAACTGTGTAGTTAATCAAAG421ACAACCCTAATCATGGGTATCATTGACAGGCAAAGAAAGAGAACTCAGTGT423TGTTTGCAATGCAACCGGGAATGTTCAGACAGGTTCAAATATTGGCAGAGAAA425CTGAAAACATTTTACAATTCTTTCCTGAAAGTAACAAATCAAATCGCTACAA427AAAAAATTATAACACTCATATTTTCCTGAAAGTAACAAATCAA431TTCGATATGAACGTCATTACATTAACTATTCCTCATGCTACAATATATAGCAC433CTCTATTTC	395	AAGAAGATCA	ATTCAGAAAA	CGATTTTATA	ATAGTATGCT	CAACAACATC	ACAGATGCTG	9600
401 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTT TT 403 TATTTGGACA CCCAATGGTA GATGAAAGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT. 423 TGTTTGCAAT GCAACCGGAA ATGTTCAGAC AGGTTCAAAA ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT. 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTGTAAG TGCTCTATCA TCACAGATC CAGCAAATTC AA 421 TTCGATATGA ACCGTCAT TTTCCTGAAA GTAACAAATC AAATCGCTAC AA 422 ACAACAATTA CATTGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 423 TGTCTGCCCC CTATATAGGA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 424 ACAACAATTA CATTGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA ACCGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GA 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AAATAATATGC AC 434 ACGCCCCC CTATATAGGA GATCATATTG TAGACTCTAA CAATGAAACCA TGAACCAATC AA 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGACTCTAA CAATGAAACCA TGAACAACCA TGAACAACCA TGAACAACCA TGAACAACCA TGAACAACCA TGAACAACCA TGAACCAATC AC 436 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 437 GATTATATAG ACAATCAA ATAGATATAA GCAAACCAAT CAGACTCATG GA 438 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGAATCA TTAAACACCT TAAATTACCC AAATCAATCA ATAGAATCA ATAGAACCAAT CAGACCTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATACCC TAAAACCAAT CAGACCTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCCTATTA AC 445 ATGCAGGCAT AGCCACAAA TTAAAAGGGAA CTGAGACTTA TATATCACCA GA 447 TTATGAGGTAA AACCAATTCA CATAACCGGTG TAAATTACC	397	CTAATAAAGC	TCAGAAAAAT	CTGCTATCAA	GAGTATGTCA	TACATTATTA	GATAAGACAG	9660
403 TATTTGGACA CCCAATGGTA GATGAAAGAC AAGCCATGGA TGCTGTTAAA AT 405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT. 423 TGTTTGCAAT GCAACCGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT. 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATC CAGCAAATTC AA 421 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGAT GA 423 TGTTTGCAAT GCAACCGGA ATGTTCAGAC AGTACAAATC AAATCGCTAC AA 424 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 425 ACACCAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 427 AAAAAATATT CCTGGTTACAT TTACACTTC TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GA 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AAATAATATGC AC 434 AGCCTCATC ACATTCAATCA TTAACTATTC TCACAGGGAA ATTCTCAATT AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 436 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 438 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACCG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCTCATTG GA 445 ATGCAGGCAT AGCCACAAA TTAAAAGGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CAATGCAGTG TAAAATTACCC AGCCTCATG GA 447 TTATGAGTAA AACAATTCAA CAATACAAGGGAA CTGAGACTTA TATATCACGA GA	399	TGTCCGATAA	TATAATAAAT	GGCAGATGGA	TAATTCTATT	AAGTAAGTTC	CTTAAATTAA	9720
405 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TT 407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTACAAAAC ATTGGCAGAG AA 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAAAC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAAAGACTA TG 433 CTCTATTTC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 434 CTCATGCTCA AGCAGATTAT TTAACTATTC TCAAAGGGAA ATTCTCAATT AC 437 GATTATATAG ATATCACATC ATAGATATAA GCAAACCAAT CAGACTCATG GA 433 CTCTATTTC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 434 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AAC 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AACAATTCAA ACCATACAACGGTG TATATTACCC AGCTAGTATA AACAATTCAA ACCATACGGTG TATATTACCC AGCTAGTATA AACAATTCAA ACCATACAATCAATCAATCAA ACCATACAATCAAT	401	TTAAGCTTGC	AGGTGACAAT	AACCTTAACA	ATCTGAGTGA	ACTATATTTT	TTGTTCAGAA	9780
407 GAATTATAAA AGGGTTTGTA AATAATTACA ACAGATGGCC TACTTTAAGA AA 409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTTAACAAAAC AATTGGTGAT CT 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATC CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATATC TCAAAGGGAA ATTCTCAATT AC 433 CTCTATTTC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 434 CATCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGGAA CTGAGACTAT TAAATTACCG AGA 447 TTATGAGTAA AACAATTCAA CATTAACGGTG TATAATTACCC AGCTAGTATA AA	403	TATTTGGACA	CCCAATGGTA	GATGAAAGAC	AAGCCATGGA	TGCTGTTAAA	ATTAATTGCA	9840
409 TTTTACCCTT AAGATGGTTA ACTTACTATA AACTAAACAC TTATCCTTCT TT 411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTCAAAA ATTGGCAGAG AA 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATG ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACCTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCA CATAACGGTG TATAATTACCC AGCTAGTATA AA 447 TTATGAGTAA AACAATTCA CATAACGGTG TATAATTACCC AGCTAGTATA AA								9900
411 TTACAGAAAG AGATTTGATT GTGTTATCAG GACTACGTTT CTATCGTGAG TT 413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAA ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 444 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACCTAT TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATAATTACCC AGCTAGTATA AA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATAATTACCC AGCTAGTATA AA	407	GAATTATAAA	AGGGTTTGTA	AATAATTACA	ACAGATGGCC	TACTTTAAGA	AATGCTATTG	9960
413 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CCC 415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAAATT AAAATTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT 427 AAAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 433 CTCTATTTC ACTATTGGAT TTAACTATTG TAGATCTTAA CAATGTAGAT GA 434 CTCATGTCA ACTATTGGAT TTAACTATTC TCAAAGGGAA ATTCTCAATT AC 435 ATGCACCCCC AAATCAATCA ATAGAATATAA GCAAACCAAT CAGACTCATG GA 437 CAATGATATC ACTATTGGAT TTAACATTACC TCAAAGGGAA ATTCTCAATT AC 438 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCTCATG GA 441 TTAATGGTGA CAATCAAAACCAAT TAAAAAGGAA CTGAGACTAT TAAATTACTG TA 442 ATGCAGGCAT AGGCCACAAA TTAAAAAGGAA CTGAGACTTA TATATCACGA GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCTAGTATA AA 445 ATGCAGGCAT AGCACAAAA CAAATCAA CAATAAACGGAT TAAAATAGCCT TAAATTACTG TA	409							10020
415 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TA 417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GT. 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT. 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 437 CATTATATAG ATATCACATG ATGTGCATCG TCAAAAACTA TG 438 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAAATT AC 439 AAGCTATATC ACTATTGGAT TTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCTAGTATA AA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	411	TTACAGAAAG	AGATTTGATT	GTGTTATCAG	GACTACGTTT	CTATCGTGAG	TTTCGGTTGC	10080
417 ATGAAAAATT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TA 419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 437 CATTATATAG AGCAGATTAT TTGCTAGCAT TAAATTAGCCT TAAATTACTG TA 438 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 441 TTAATGGTGA AGCACACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC AGCTAGTATA AA 445 ATGCAGGCAT AGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	413	CTAAAAAAGT	GGATCTTGAA	ATGATTATAA	ATGATAAAGC	TATATCACCT	CCTAAAAATT	10140
419 GAGATAACAA ATTCAATGAA TGTGATTTAT ACAACTGTGT AGTTAATCAA AG 421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAG AGAACTCAGT GT 423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 433 CTCTATTTC AGCAGATTAT TTGCTAGCAT TAAATTACCG GA 434 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATTACCC TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	415	TGATATGGAC	TAGTTTCCCT	AGAAATTACA	TGCCATCACA	CATACAAAAC	TATATAGAAC	10200
421 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAG AGAACTCAGT GTATTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AAACAAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CTAAAAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AAACAAATA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AAACAATTC ATTGGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GGAACTATTC CTCATGTCAC AATAATATGC ACACAATTC CTCATGTCAC AATAATATGC ACACACAATTC CTCATGTCAC AATAATATGC ACACACAATTC CTCATGTCAC AATAATATGC ACACACACACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GAACTAATAG AAACCAATC ACACACACCAC CTATATGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT ACACACCACCAC CAATCAATCA ATAGATATACC ACACACCACCACACACCACCACACACCACCACCACC	417	ATGAAAAATT	AAAATTTTCC	GAGAGTGATA	AATCAAGAAG	AGTATTAGAG	TATTATTTAA	10260
423 TGTTTGCAAT GCAACCGGGA ATGTTCAGAC AGGTTCAAAT ATTGGCAGAG AA 425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 431 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 433 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	419	GAGATAACAA	ATTCAATGAA	TGTGATTTAT	ACAACTGTGT	AGTTAATCAA	AGTTATCTCA	10320
425 CTGAAAACAT TTTACAATTC TTTCCTGAAA GTCTTACAAG ATATGGTGAT CT. 427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	421	ACAACCCTAA	TCATGTGGTA	TCATTGACAG	GCAAAGAAAG	AGAACTCAGT	GTAGGTAGAA	10380
427 AAAAAATATT AGAACTGAAA GCAGGAATAA GTAACAAATC AAATCGCTAC AA 429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	423	TGTTTGCAAT	GCAACCGGGA	ATGTTCAGAC	AGGTTCAAAT	ATTGGCAGAG	AAAATGATAG	10440
429 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AA 431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	425							10500
431 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAACTGCAT GG 433 CTCTATTTC CTGGTTACAT TTAACTATTC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA	427	AAAAAATATT	AGAACTGAAA	GCAGGAATAA	GTAACAAATC	AAATCGCTAC	AATGATAATT	10560
433 CTCTATTTC CTGGTTACAT TTAACTATC CTCATGTCAC AATAATATGC AC 435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATAG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA								10620
435 ATGCACCCC CTATATAGGA GATCATATTG TAGATCTTAA CAATGTAGAT GA 437 GATTATATG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA								10680
437 GATTATATG ATATCACATG GGTGGCATCG AAGGGTGGTG TCAAAAACTA TG- 439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT AC 441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AAC								10740
439 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT ACTAAT TAAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GAAACCAAT CACACTCATG GAAACCAAT CACACTCATG TAAATAGCCT TAAATTACTG TAAATGCAGAAA ATAGACAAAAAAAAAA								
441 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GA 443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA								
443 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TA 445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA								10920
445 ATGCAGGCAT AGGCCACAAA TTAAAAGGAA CTGAGACTTA TATATCACGA GA 447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA								10980
447 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AA		,						11040
								11100
449 TAAGAGTGGG ACCGTGGATA AACACTATAC TTGATGATTT CAAAGTGAGT CT.								11160
	449	TAAGAGTGGG	ACCGTGGATA	AACACTATAC	TTGATGATTT	CAAAGTGAGT	CTAGAATCTA	11220

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/444,067A

DATE: 02/16/2005 TIME: 14:35:43

Input Set : N:\Crf3\RULE60\09444067A.raw.txt
Output Set: N:\CRF4\02162005\I444067A.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:38 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1) (vii)